

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-10: (Canceled)

11. (Presently Amended) A method of making high methionine corn seeds that produce saturation levels of 10 kDa zein ~~regardless of~~ in a plant with the *dzt1* negative dominant allelic composition of the seed, comprising the steps of:

a) transforming cells of a *dzt1* negative dominant allelic corn plant with a vector comprising a chimeric gene encoding a maize 10 kDa zein, wherein the chimeric gene comprises a maize 10 kDa zein coding region operably linked at its 5' end to a promoter, and at its 3' end to a heterologous 3' UTR;

b) regenerating from the transformed cells a fertile transgenic corn plant expressing the chimeric gene; and

c) producing seeds from the plant, wherein the seeds express the chimeric gene, thereby producing saturation levels of the 10 kDa zein in a plant with ~~regardless of the *dzt1* negative dominant allelic composition of the seed~~.

12. (Canceled)

13. (Previously Presented) The method of claim 11, wherein the chimeric gene comprises a promoter selected from the group consisting of a 27 kDa zein gene promoter, a 27 kDa (O2) zein gene promoter, a 10 kDa zein gene promoter and an 18 kDa zein gene promoter.

14. (Previously Presented) The method of claim 13, wherein the chimeric gene comprises a 10 kDa zein coding region operably linked to a 27 kDa zein gene promoter and a CaMV 35S gene 3' UTR.

15. (Canceled)

16. (Previously Presented) The method of claim 14, wherein the chimeric gene is contained in vector pJM2710.

17. (Previously Presented) A fertile transgenic corn plant produced by the method of claim 11.

18-21: (Canceled)

22. (Previously Presented) The method of claim 11, further comprising the step of breeding the fertile transgenic corn plant with another corn plant to produce high methionine seed-producing progeny corn plants.

23. (Previously Presented) A high methionine seed-producing progeny corn plant produced by the method of claim 22.

24. (Canceled) The high-methionine seed-producing corn plant of claim 23, which comprises a *dzt1* dominant negative allele.

25. (Presently Amended) A fertile, transgenic corn plant that produces high methionine corn seeds ~~regardless of~~ in the presence of the *dzt1* negative dominant allelic composition of the seed, transformed with a vector comprising a chimeric gene encoding a maize 10 kDa zein, wherein the chimeric gene comprises a maize 10 kDa zein coding region operably linked at its 5' end to a promoter, and at its 3' end to a heterologous 3' UTR.

26. (Previously Presented) The transgenic corn plant of claim 25, wherein the chimeric gene comprises a promoter selected from the group consisting of a 27 kDa zein gene promoter, a 27 kDa (O2) zein gene promoter, a 10 kDa zein gene promoter and an 18 kDa zein gene promoter.

27. (Presently Amended) The transgenic corn plant of claim 26, wherein the chimeric gene comprises a maize 10 kDa zein coding region operably linked to a 27 kDa zein gene promoter and a CaMV 35S gene 3' UTR.

28. (Previously Presented) The transgenic corn plant of claim 27, wherein the chimeric gene is contained in vector pJM2710.

29. (Previously Presented) A high methionine seed-producing progeny corn plant produced by breeding the fertile transgenic corn plant of claim 25 with another corn plant.

30. (Canceled) The high methionine seed-producing progeny corn plant of claim 29, comprising a *dzr1* dominant negative allele.